

ABSTRACT

A telemetric sensing system for monitoring physiological parameters for diagnosis and treatment of congestive heart failure in a patient. ~~patient is provided.~~ This system includes one or more implantable sensing devices implanted in a cavity of the patient's cardiovascular system, and a non-implantable reader unit. ~~readout device.~~ The implantable sensing device has an inductor and at least one sensor ~~capacitor~~ with an option of having electronic components, as well as a mechanism for anchoring the device inside the patient's ~~patients'~~ body. The external readout device has at least one inductor coil with a telemetric device that provides for at least one of ~~allows~~ electromagnetic telecommunication and wireless powering of the sensing device. ~~implanted sensor. Data transmitted from the implantable device may include pressure, temperature, calibration data, identification data, fluid flow rate, chemical concentration, and/or other physiologic parameters.~~ This wireless system provides a means for effective monitoring, management and tailoring of treatments for patients suffering from congestive heart failure as well as many other diseases.